

What is Claimed:

1. A computer, comprising:
an asynchronous database Application Programming Interface (“API”).
2. The computer of claim 1, further comprising an initialization method that is invoked by a client thread to request a database operation, wherein said initialization method initiates a return communication with the client thread after the method is invoked without waiting for any external event.
3. The computer of claim 2, wherein said initialization method validates input parameters for a database operation.
4. The computer of claim 2, wherein said initialization method sets up a database operation by generating database instructions based on data passed to the initialization method.
5. The computer of claim 2, wherein said initialization method sends a request for an operation to a database server.
6. The computer of claim 2, wherein said return communication comprises an event object that can be signaled when a database operation completes
7. The computer of claim 2, wherein said return communication comprises an object with a Boolean flag that can be signaled when a database operation completes.
8. The computer of claim 1, further comprising callback function for notifying a client thread when a database operation completes.
9. The computer of claim 1, further comprising a finalization method that can be invoked by a client thread to obtain any results of a database operation.
10. The computer of claim 9, wherein upon invocation said finalization method undertakes any final step in preparing database results for a thread and returns said database from a database operation to a thread.

11. The computer of claim 1, wherein the API provides an open connection method that allows a client application to open a database connection asynchronously.
12. The computer of claim 1, wherein the API provides an execute Structured Query Language (“SQL”) statement method that allows a client application to execute a SQL statement asynchronously.
13. A process for requesting a database function, comprising:
 - communicating by a thread to a database application programming interface (“API”); and
 - receiving a return communication that allows the thread to continue to execute without waiting for any external event; and
 - receiving a signal when a database operation is complete that prompts the thread to retrieve database results.
14. A process according to claim 13, wherein said communicating comprises invoking an initialization method, and wherein said initialization method initiates said return communication.
15. A process according to claim 14, wherein said initialization method validates input parameters for a database operation, sets up a database operation by generating database instructions based on data passed to the method, and sends a request for an operation to a database server.
16. A process according to claim 14, wherein said initialization method maintains a callback function for notifying a thread when a database operation completes.
17. A process according to claim 13, wherein said return communication comprises an event object that can be signaled when a database operation completes.
18. A process according to claim 13, wherein said return communication comprises an object with a Boolean flag that can be signaled when a database operation completes.
19. A process according to claim 13, further comprising invoking a finalization method to obtain any results of a database operation.

20. A process according to claim 19, wherein upon invocation said finalization method undertakes any final step in preparing database results for a thread.

21. A computer readable medium bearing instructions comprising:

instructions for providing an application programming interface (“API”) for an application that requests a database function; and

instructions for sending a return communication to the application after the application requests the database function, wherein said return communication allows the application to continue executing without waiting for results from a requested database operation that the database is performing; and

instructions for signaling an application when a database operation is complete.

22. A computer readable medium according to claim 21, wherein said instructions for providing an API comprise instructions for an initialization method that is invoked by a client thread to request a database operation, wherein said initialization method initiates a return communication with the client thread after the initialization method is invoked without waiting for any external event.

23. A computer readable medium according to claim 22, wherein said return communication comprises an event object that can be signaled when a database operation completes.

24. A computer readable medium according to claim 22, wherein said return communication comprises an object with a Boolean flag that can be signaled when a database operation completes.

25. A computer readable medium according to claim 22, wherein said initialization method maintains a callback function for notifying a thread when a database operation completes.

26. A computer readable medium according to claim 22, further comprising instructions for a finalization method that can be invoked by a client thread to obtain any results of a database operation.

27. A computer readable medium according to claim 26, wherein upon invocation said finalization method returns results from a database operation to a thread.

28. A computer readable medium according to claim 21, wherein the API provides an open connection method that allows a client application to open a database connection asynchronously.

29. A computer readable medium according to claim 21, wherein the API provides an execute Structured Query Language (“SQL”) statement method that allows a client application to execute a SQL statement asynchronously.